



## APPLICATION

Shielded Multi-Conductor cable suitable for Audio, Control, Instrumentation and Building Management System (BMS)

## DESIGN

Conductor: N x Bare Copper Wire, 20 AWG Flexible

Insulation: Polyolefin

Core 1: Black, Core 2: Red, Core 3: White, Core 4: Green, Core 5: Brown, Core 6: Blue, Core 7: Orange, Core 8: Yellow, Core 9: Purple, Core 10: Grey

Drain Wire: 24 AWG (7x32)

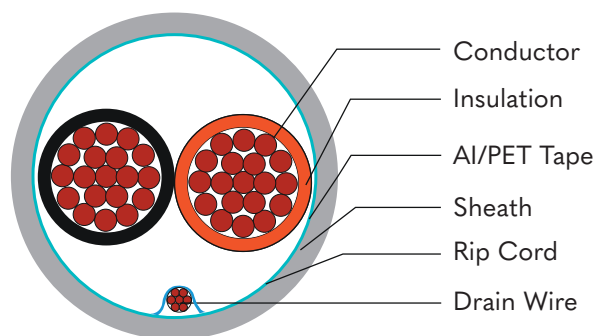
Screen: Aluminium/Polyester 100% Coverage

Rip Cord: Nylon Yarn

Sheath: Flame-Retardant Polyvinyl Chloride (PVC)  
Standard colour: Grey

Standard Put-up Length: 305 Meters

## Cross Section Drawing



## Physical Characteristics

Part Number	VSC220P	VSC320P	VSC420P	VSC620P	VSC820P
No of Cores x 20 AWG (7 x 28)	2	3	4	6	8
Nom. Diameter Conductor (mm)	0.87				
Nom. Radial Thickness Insulation (mm)	0.2				
Nom. Radial Thickness Sheath (mm)	0.4				
Nom. Overall Diameter (mm)	3.5	3.7	4.1	5.0	5.4
Operating Temperature (°C)	-25 / +75				
Max. Recommended Pulling Tension (N)	112	168	224	336	448
Min. Bend Radius (Install) (mm)	35	37	41	50	54
Nominal Cable Weight (kg/km)	22	28.5	35.4	49.9	62.9

## Electrical Characteristics

Part Number	VSC220P	VSC320P	VSC420P	VSC620P	VSC820P
No of Cores x 20 AWG (7 x 28)	2	3	4	6	8
Max. DC Resistance Conductor ( $\Omega$ /km)	41.5				
Max. DC Resistance Screen ( $\Omega$ /km)	95				
Capacitance conductor to conductor (pF/m)	100	90	90	90	75
Capacitance cond. to other Cond.+Screen(pF/m)	190	160	160	140	140
Nominal Inductance ( $\mu$ H/m)	0.5				
Max. Recommended Current at 25°C (Amps)	5	5	5	3.5	3.5
Max. Operating Voltage (Vrms)	300				

## Reference & Standards

(BS) EN 50290-2

IEC 61034, IEC 60332-3-24

IEC 60228

IEC 60754-1 & 2

RoHS directives

## Ordering Information

Part Number	Description
VSC220P	2 Core, 20 AWG Shielded Multi Conductor Cable, PVC 305M / Roll
VSC320P	3 Core, 20 AWG Shielded Multi Conductor Cable, PVC 305M / Roll
VSC420P	4 Core, 20 AWG Shielded Multi Conductor Cable, PVC 305M / Roll
VSC620P	6 Core, 20 AWG Shielded Multi Conductor Cable, PVC 305M / Roll
VSC820P	8 Core, 20 AWG Shielded Multi Conductor Cable, PVC 305M / Roll